

Effect of the addition of 20% HL by weight of bitumen on
 $G^* \sin \delta$ at 70C.

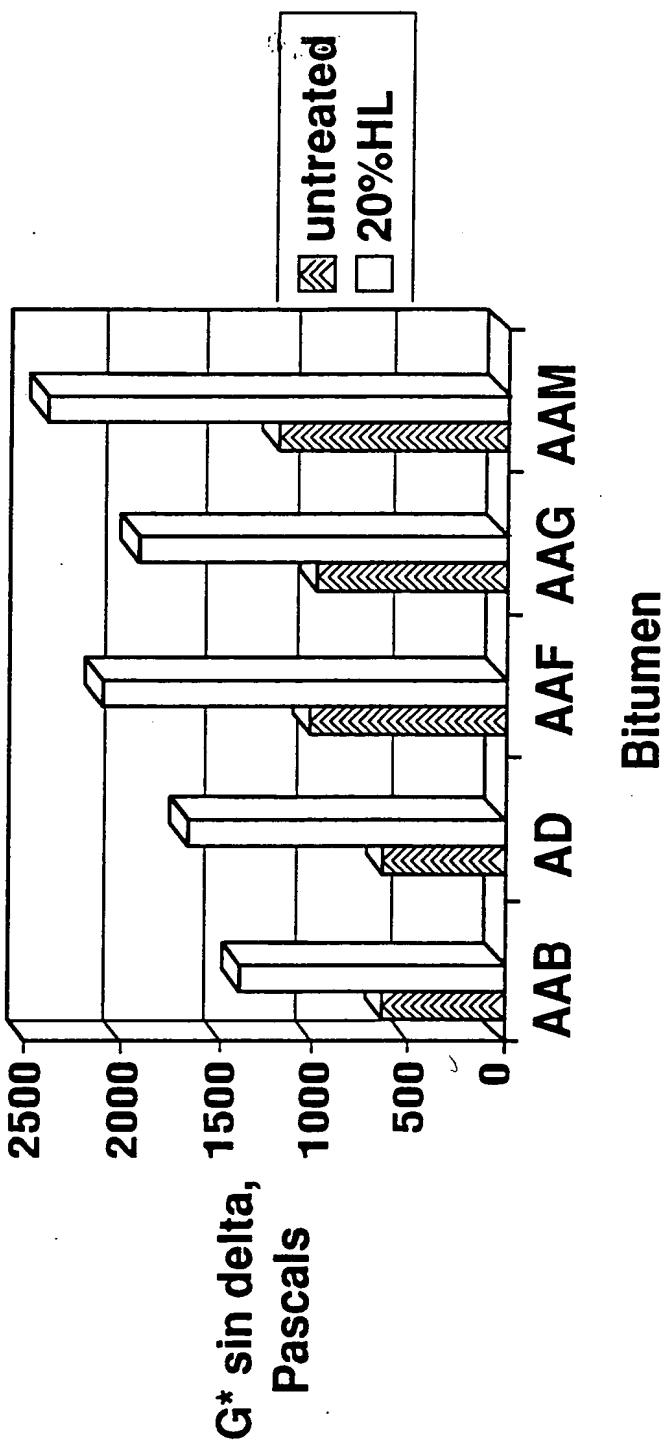


FIG. 1

Change in viscosity of AAD and HL as a function of reaction time and blending time.

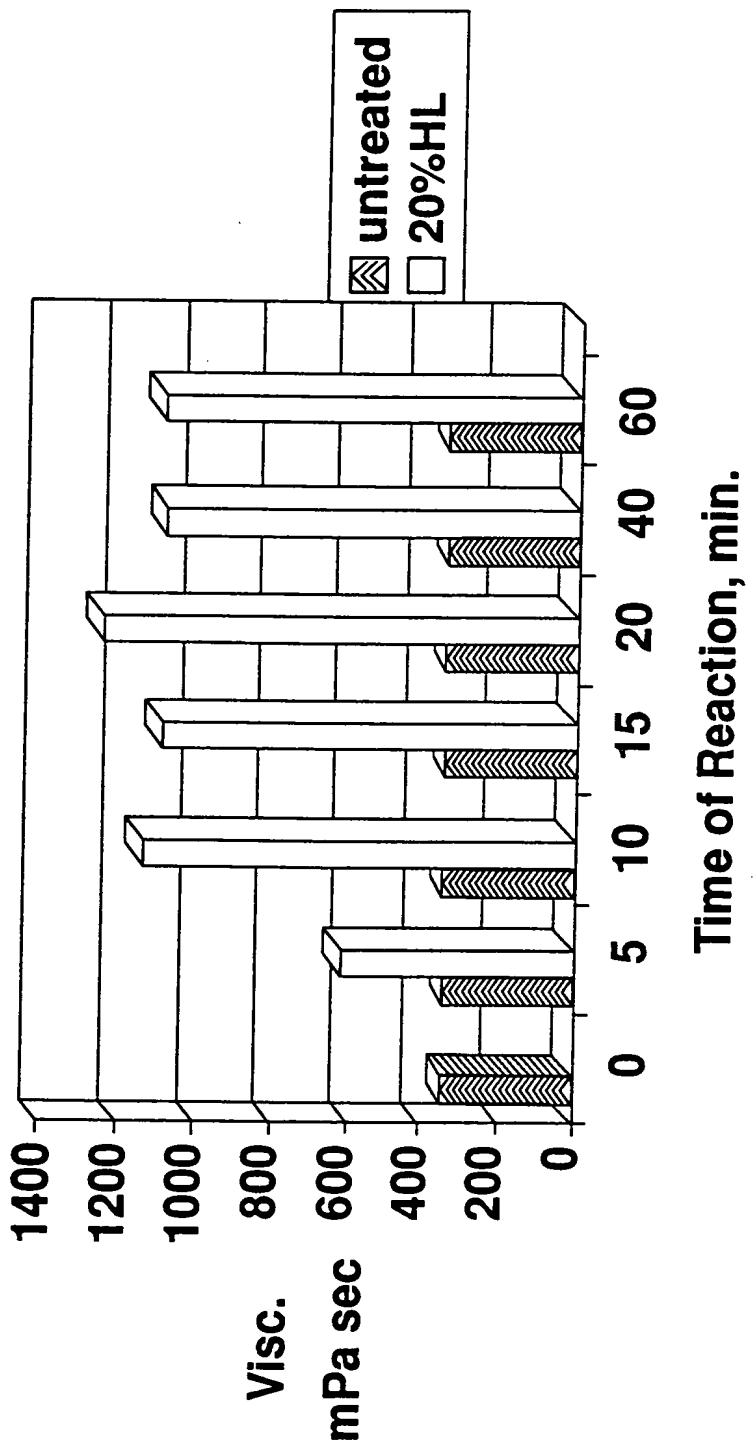


FIG. 2

Change in viscosity of AAM and HL as a function of
reaction time and blending time

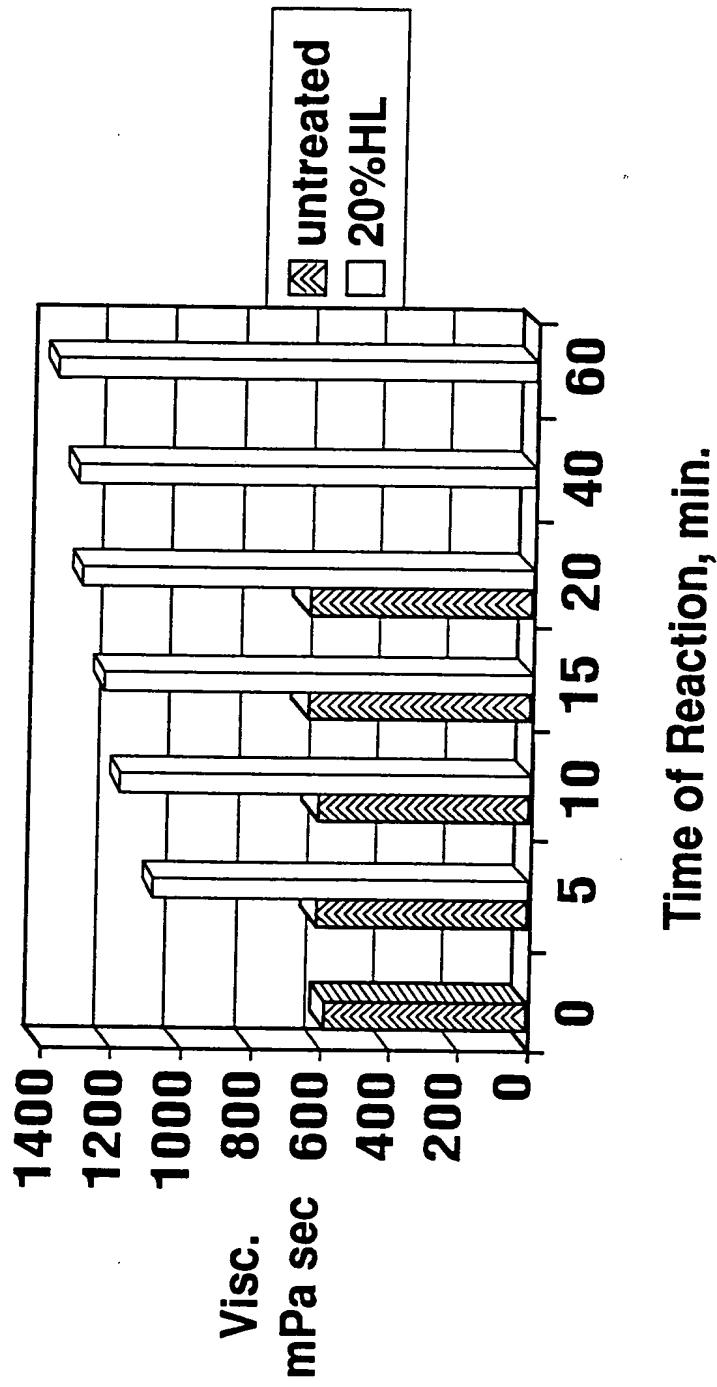
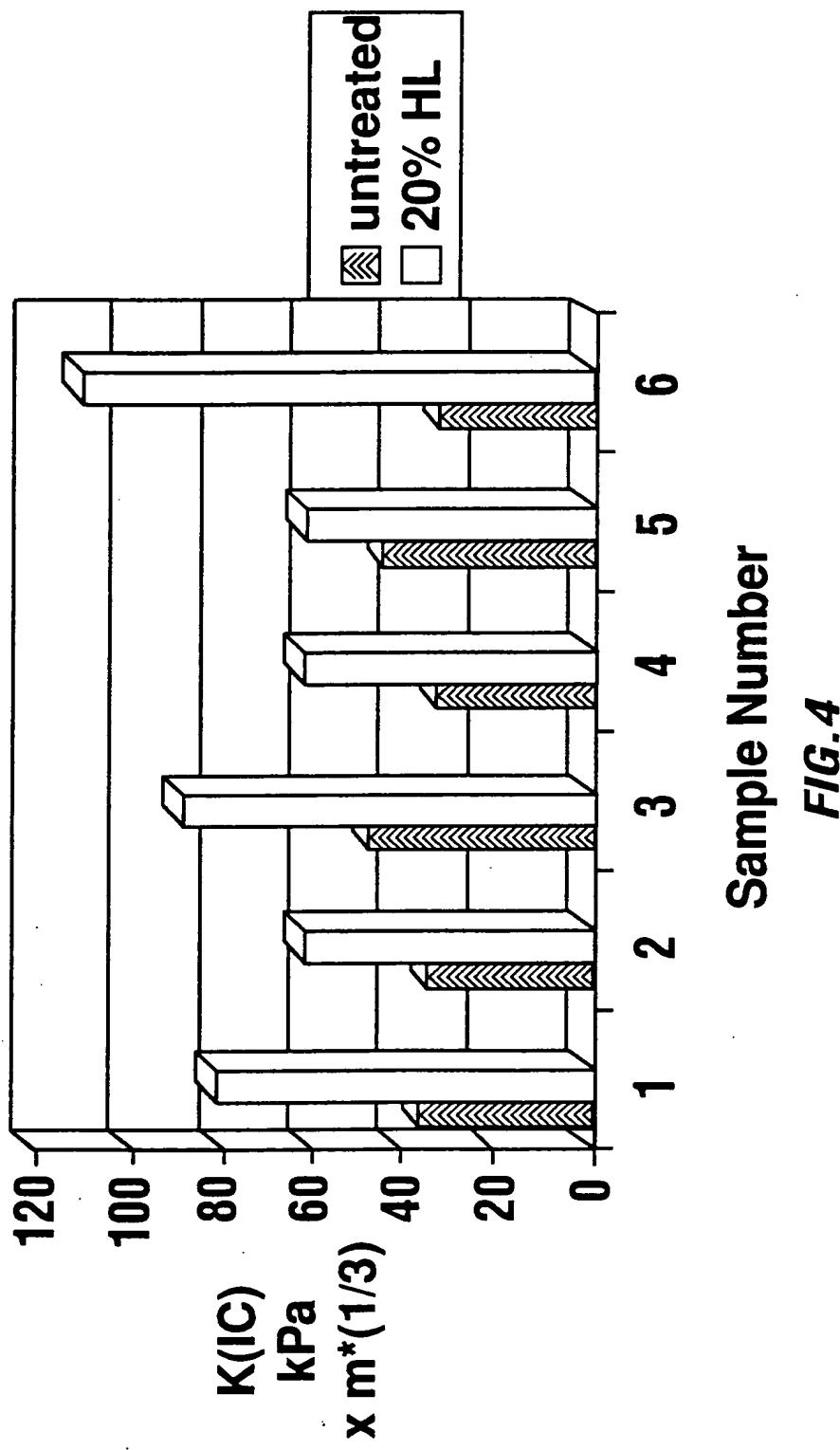


FIG. 3

Fracture toughness of AAD with 20% HL at -15°C.



Effect of 20% HL on fracture toughness of AAM at -15C.

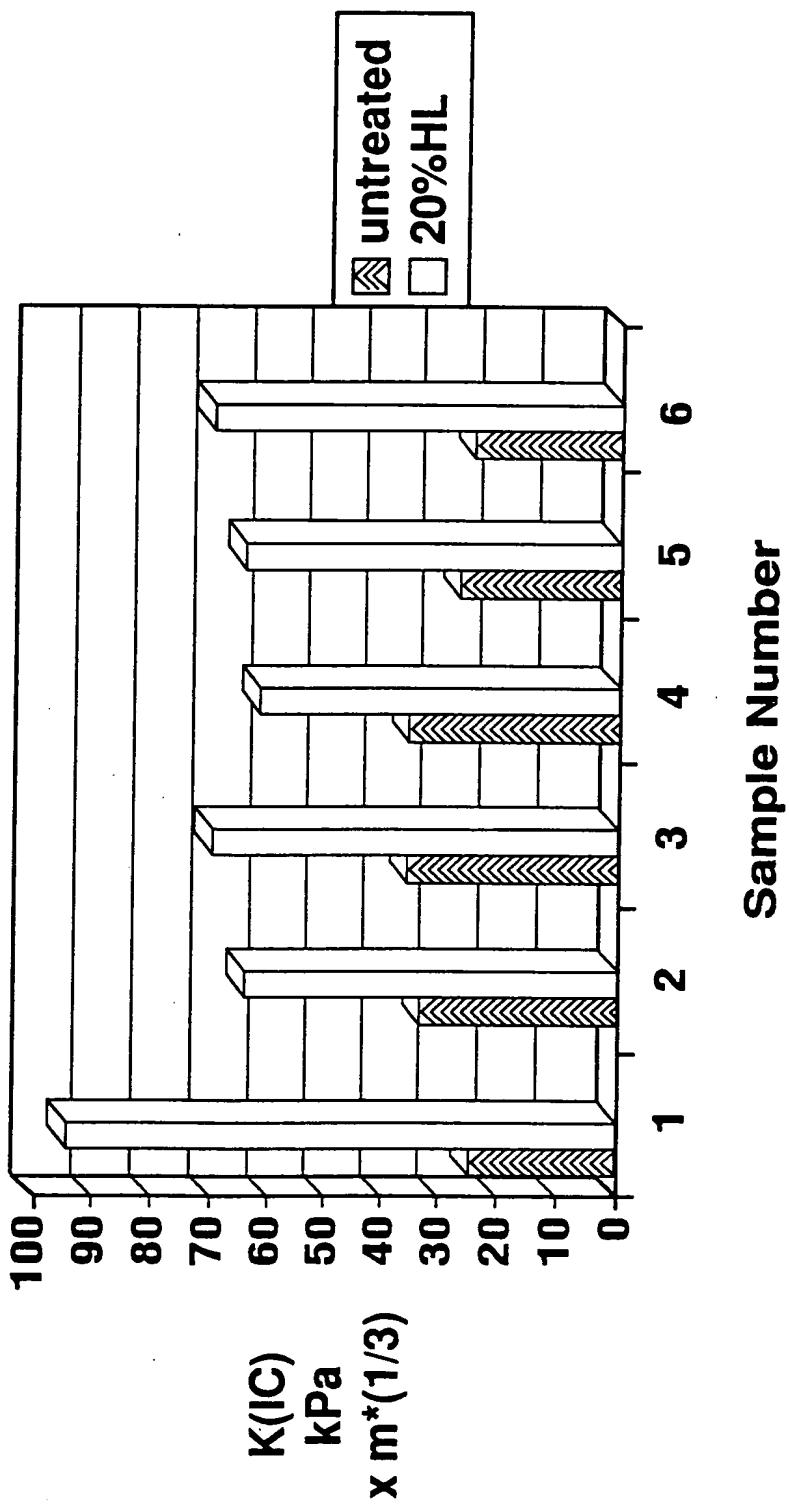


FIG. 5

Effect of HL on accumulated shear deformation for asphalt
mixes using binders AAD and AAM.

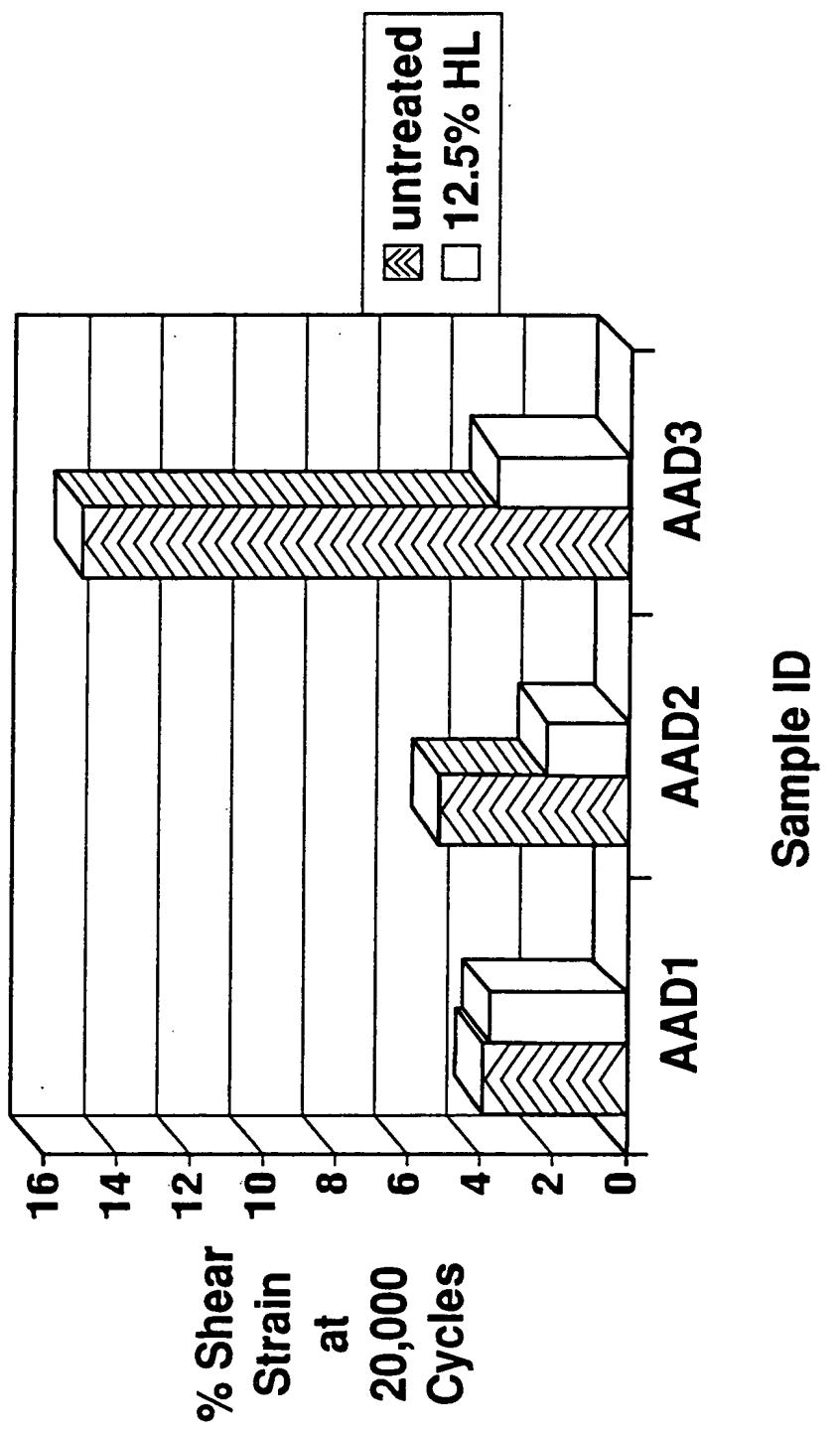


FIG. 6

Effect of HL on controlled-strain fatigue life based on
regression analysis of 21 mixtures.

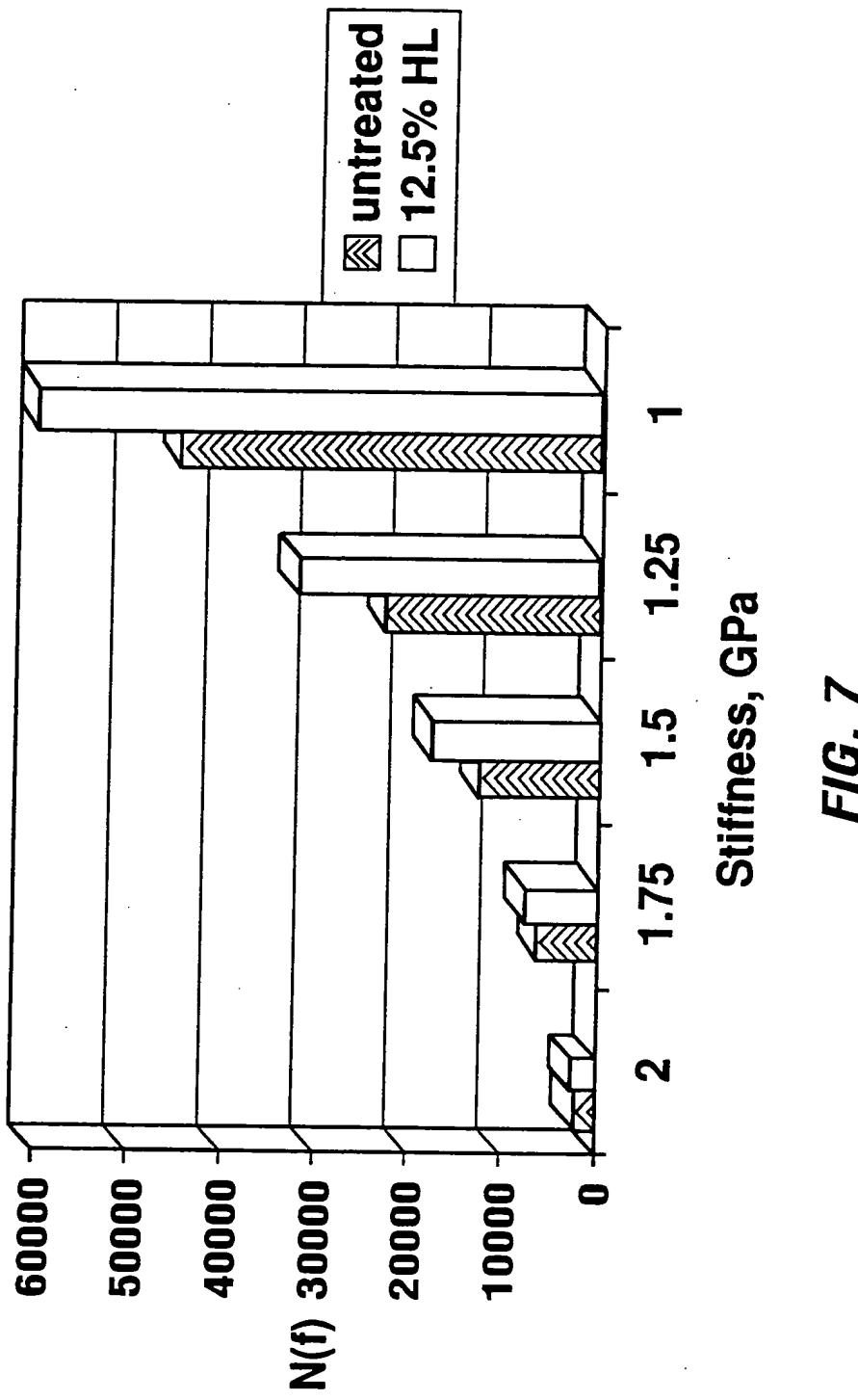


FIG. 7

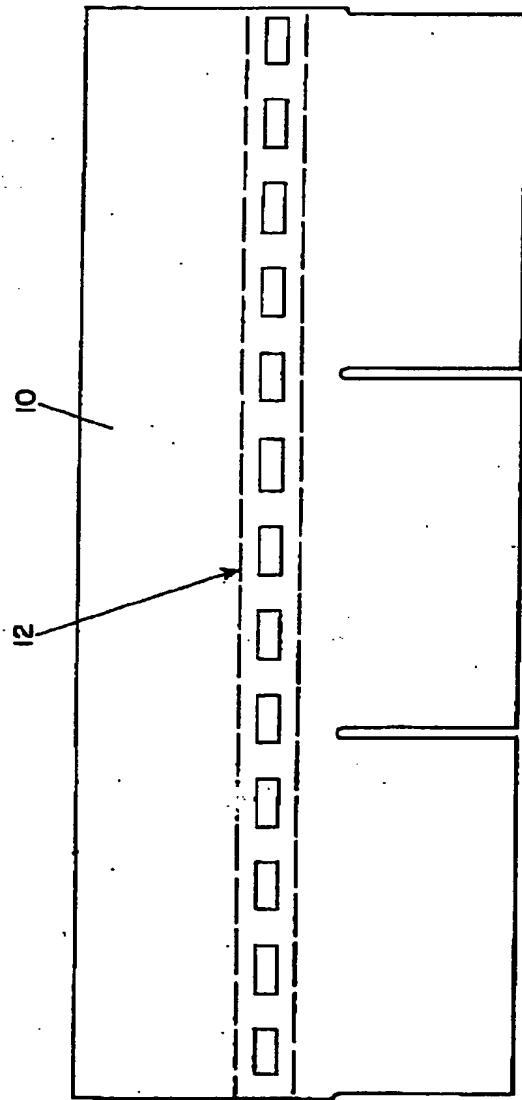


Fig. 8

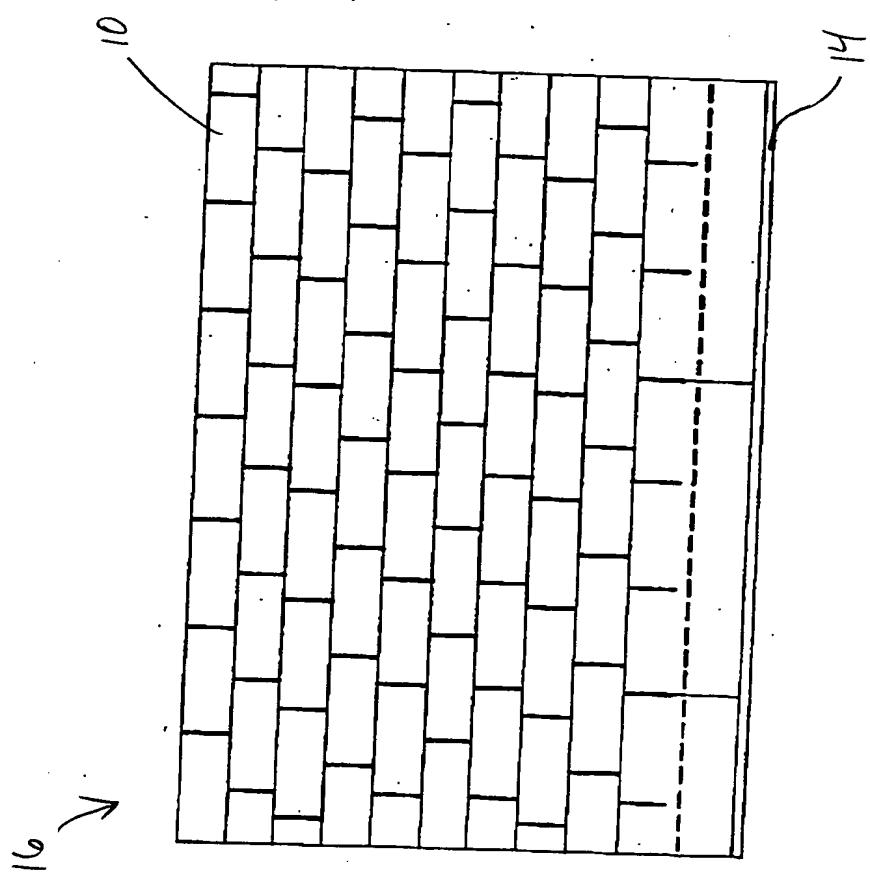


Fig. 9

